

NRR-PMDAPem Resource

From: Dutes, Rheiner:(GenCo-Nuc) <Rheiner.Dutes@exeloncorp.com>
Sent: Friday, February 03, 2017 8:51 AM
To: Hughey, John
Cc: Distel, David J:(GenCo-Nuc); Lane, Michael David:(GenCo-Nuc); Ho, Wing:(GenCo-Nuc); Olszewski, David P:(GenCo-Nuc); Jimenez, Jeronimo:(GenCo-Nuc)
Subject: [External_Sender] RE: Response to Oyster Creek FLEX FIP Request for Additional Information

Correct. We agree with the NRC making the email string public as the body does not contain proprietary or sensitive information.

Thank you,

Rheiner Dutes

Sr. Regulatory Assurance Specialist
Exelon Corp
Oyster Creek Nuclear Generating Station
Forked River, NJ 08731
(609) 971-4629

From: Hughey, John [mailto:John.Hughey@nrc.gov]
Sent: Friday, February 03, 2017 7:13 AM
To: Dutes, Rheiner:(GenCo-Nuc)
Cc: Distel, David J:(GenCo-Nuc); Lane, Michael David:(GenCo-Nuc); Ho, Wing:(GenCo-Nuc); Olszewski, David P:(GenCo-Nuc); Jimenez, Jeronimo:(GenCo-Nuc)
Subject: RE: Response to Oyster Creek FLEX FIP Request for Additional Information

Rheiner, just to confirm, these e-mail responses contain no proprietary or sensitive information and Exelon is agreeable with the NRC making this e-mail string publicly available in ADAMS – correct?

John Hughey

Mitigation Strategies & SFP Instrumentation
Project Manager, NRR/JLD/JOMB
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From: Dutes, Rheiner:(GenCo-Nuc) [mailto:Rheiner.Dutes@exeloncorp.com]
Sent: Thursday, February 02, 2017 3:46 PM
To: Hughey, John <John.Hughey@nrc.gov>
Cc: Distel, David J:(GenCo-Nuc) <David.Distel@exeloncorp.com>; Lane, Michael David:(GenCo-Nuc) <Michael.Lane@exeloncorp.com>; Ho, Wing:(GenCo-Nuc) <Wing.Ho@exeloncorp.com>; Olszewski, David P:(GenCo-Nuc) <David.Olszewski@exeloncorp.com>; Jimenez, Jeronimo:(GenCo-Nuc) <Jeronimo.Jimenez@exeloncorp.com>
Subject: [External_Sender] Response to Oyster Creek FLEX FIP Request for Additional Information

John,

The following responses address the additional information requested from our FLEX FIP Acceptance phone call. The documents have been added to eDocs and are ready for your team's review.

Let me know if you require any additional information to close out the items.

Thank you,

Rheiner Dutes

Sr. Regulatory Assurance Specialist
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(609) 971-4629

1. Upload FLEX D/G phase rotation testing documentation to the eportal.

Response: The following documents have been uploaded to the eportal - [Work Order C2035152 – Material Staging for FLEX Electrical](#)

Specifically page 2, the paragraph starting A06.

2. Ensure key electrical calcs are in the eportal (battery calcs, ventilation calcs, D/G sizing calcs, etc.).

Response: The following documents have been uploaded to the eportal - [C-1302-735-E320-050](#), [EXOC049-CALC-002](#), [EXOC049-CALC-003](#), [EXOC049- CALC-005](#), and [A2386806-E05](#).

3. Confirm the Reference 63 (FLEX Hydraulic Analysis) in FIP Section 2.4.5 is correct. Should the reference be to the MAAP analysis?

Response:

Reference 63 (FLEX Hydraulic Analysis) in FIP Section 2.4.5 is incorrect. The reference should be to the MAAP analysis (Reference 54).

4. Upload FSAR Section and containment design specification identifying the containment design limits.

Response: The following documents have been uploaded to the eportal – [Oyster Creek UFSAR Containment Design Basis](#) and [Oyster Creek UFSAR](#)

[UFSAR Section 6.2.1.1.1](#) provides the design bases and identifies the design limits of the containment structure. Pages containing [UFSAR Section 6.2.1.1.1](#) have been uploaded to ePortal folder path: [Exelon Fukushima/ Oyster Creek/ Oyster Creek FLEX FIP Reference Documents](#).

[OYS Chapter 3](#) of the UFSAR is the complete section detailing the containment design. Specifically, pages 3.8-9 is the applicable section of the document that reference containment design limits.

5. Confirm FIP References 63 and 76 are in the eportal and upload if needed.

Response: The following documents have been uploaded to the eportal – [Hydraulic Analysis for FLEX Implementation](#) and [Riser IC FP Return Diffusers](#).

[C-1302-917-E310-002](#), [Hydraulic Analysis for FLEX Implementation](#)
[ECR-OC-14-00025](#), [Riser/IC/FP Return Diffusers](#)

6. Upload ECR and design calc documents for FLEX manifold in the RB, identify ECR section reference specifying the seismic design criteria. Email ECR document and section reference. Email response describing the walkdown performed to verify no seismic interactions for manifold location in the RB.

Response:

The two FLEX manifolds, including hard pipe connecting them, were implemented under ECR 14-00025, Rev. 3. Calculation C-1302-917-E310-001, Rev. 1 evaluated the stresses of various components. From Sections 4.1.38 and 4.1.39 of Attachment 1 to the ECR, the manifolds, piping and associated supports have been designed to Seismic Category 1 criteria. Sheet 8 of the Calculation also indicates that the manifolds, piping and associated supports have been designed for seismic to ensure availability after a beyond-design-basis external event. EC Request 426620 documents the walkdowns and evaluation demonstrating that the FLEX manifolds and piping will not have adverse seismic interactions with adjacent components. Being that the manifolds and piping are seismically robust and are located in the Reactor Building, they are reasonably protected from all external hazards.

ECR 14-00025, Rev. 3, Calculation C-1302-917-E310-001, Rev. 1, and EC Request 426620 have been uploaded to ePortal folder path: Exelon Fukushima/ Oyster Creek/ Oyster Creek FLEX FIP Reference Documents.

7. Provide email response describing logic for tornado missile protection for TB NW door pathway and upload NRC missile criteria report to eportal.

Response: Add seismic robustness to previous response.

Using the NRC-approved Oyster Creek missile information defined in LS05-82-08-069, NRC letter to Oyster Creek, SEP Topic III-4.A, Tornado Missiles, Oyster Creek Nuclear Generating Station, date 8/27/82 (uploaded to ePortal folder path: Exelon Fukushima/ Oyster Creek/ Oyster Creek FLEX FIP Reference Documents), EC Request 426629 documents the evaluation demonstrating that the FLEX equipment deployment pathway between the Turbine Building north-west door and the FLEX manifold on Reactor Building EL. 23'-6" is robust with regard to protection against tornado missiles. EC Request 426629 has been uploaded to ePortal folder path: Exelon Fukushima/ Oyster Creek/ Oyster Creek FLEX FIP Reference Documents.

The Reactor Building and the Turbine Building have been qualified for seismic by the following calculations: Calculation BR 2299-02, Volume 33, Section 3, "Seismic Analysis of Reactor Building"; and Calculation BR 2299-02, Volume 33, Section 2, "Earthquake Analysis of Turbine Building". The earthquake design criteria used in these calculations are provided in Calculation BR 2299-02, Volume 33, Section 1, "Recommended Earthquake Design Criteria". These calculations have been uploaded to ePortal folder path: Exelon Fukushima/ Oyster Creek/ Oyster Creek FLEX FIP Reference Documents.

8. The NRC staff requests additional information or an assessment of potential susceptibilities of Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) in the areas where the SFP level instrument is located and a description of how those susceptibilities will be mitigated. As a result of the NRC staff's evaluation of the EMC testing results, the staff identified a generic open item applicable to all licensees using this technology to identify any additional measures, site-specific installation instructions or position taken to address the potential effect of an EMC event on the SFPI equipment.

Response: C2035047 SFPLI EMI/RFI has been added to eDocs. Cover page show complete Work Order. Refer to steps 4.8 and 6.9 or the Mod Acceptance Test for the Primary and Secondary Instruments.

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Hearing Identifier: NRR_PMDA
Email Number: 3328

Mail Envelope Properties (0B43738CEA70584E935BAC1ED33400C186D28CCB)

Subject: [External_Sender] RE: Response to Oyster Creek FLEX FIP Request for
Additional Information
Sent Date: 2/3/2017 8:50:52 AM
Received Date: 2/3/2017 8:50:56 AM
From: Dutes, Rheiner:(GenCo-Nuc)

Created By: Rheiner.Dutes@exeloncorp.com

Recipients:

"Distel, David J:(GenCo-Nuc)" <David.Distel@exeloncorp.com>
Tracking Status: None
"Lane, Michael David:(GenCo-Nuc)" <Michael.Lane@exeloncorp.com>
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Tracking Status: None

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Files	Size	Date & Time
MESSAGE	8937	2/3/2017 8:50:56 AM

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received: